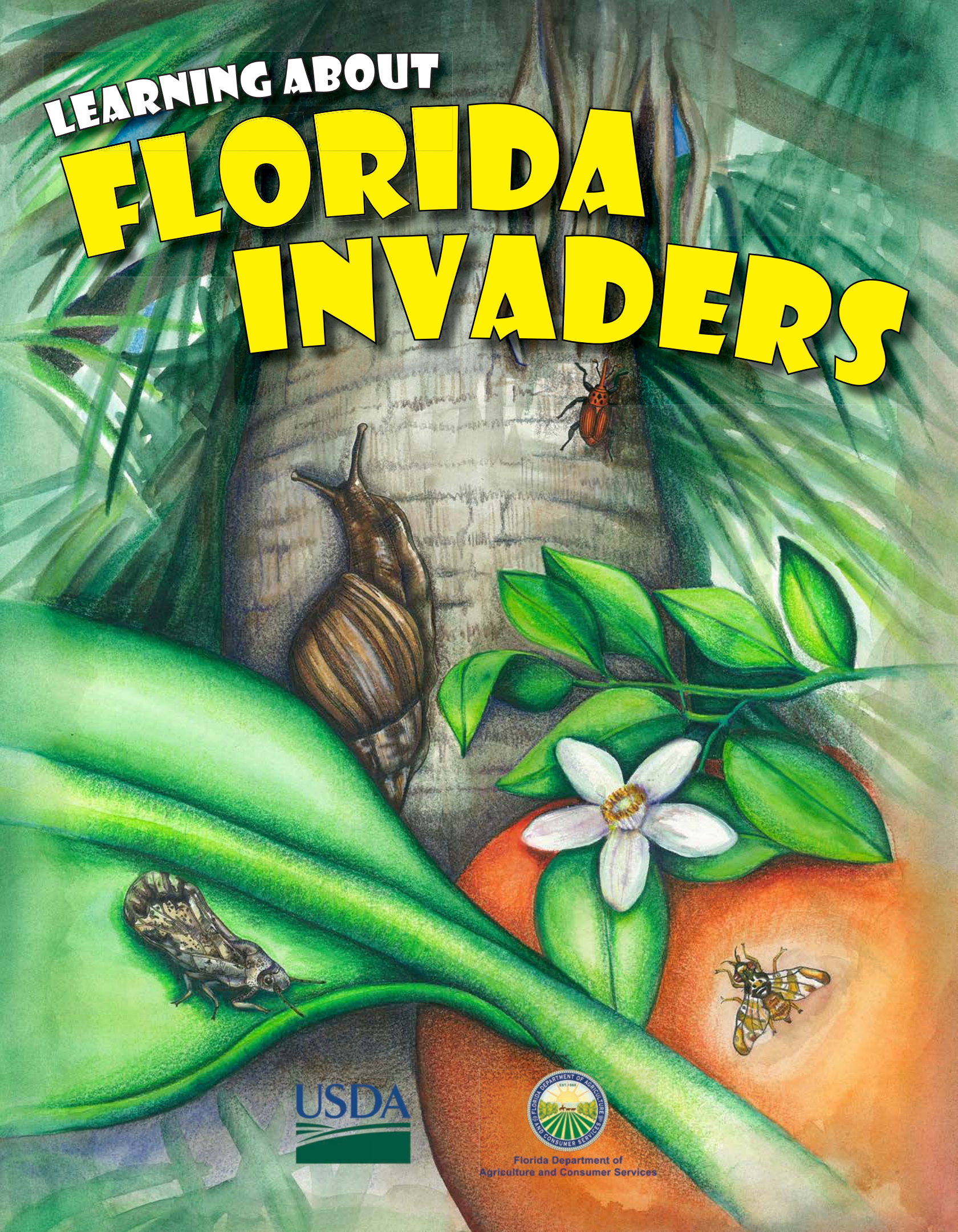


LEARNING ABOUT

FLORIDA INVADERS



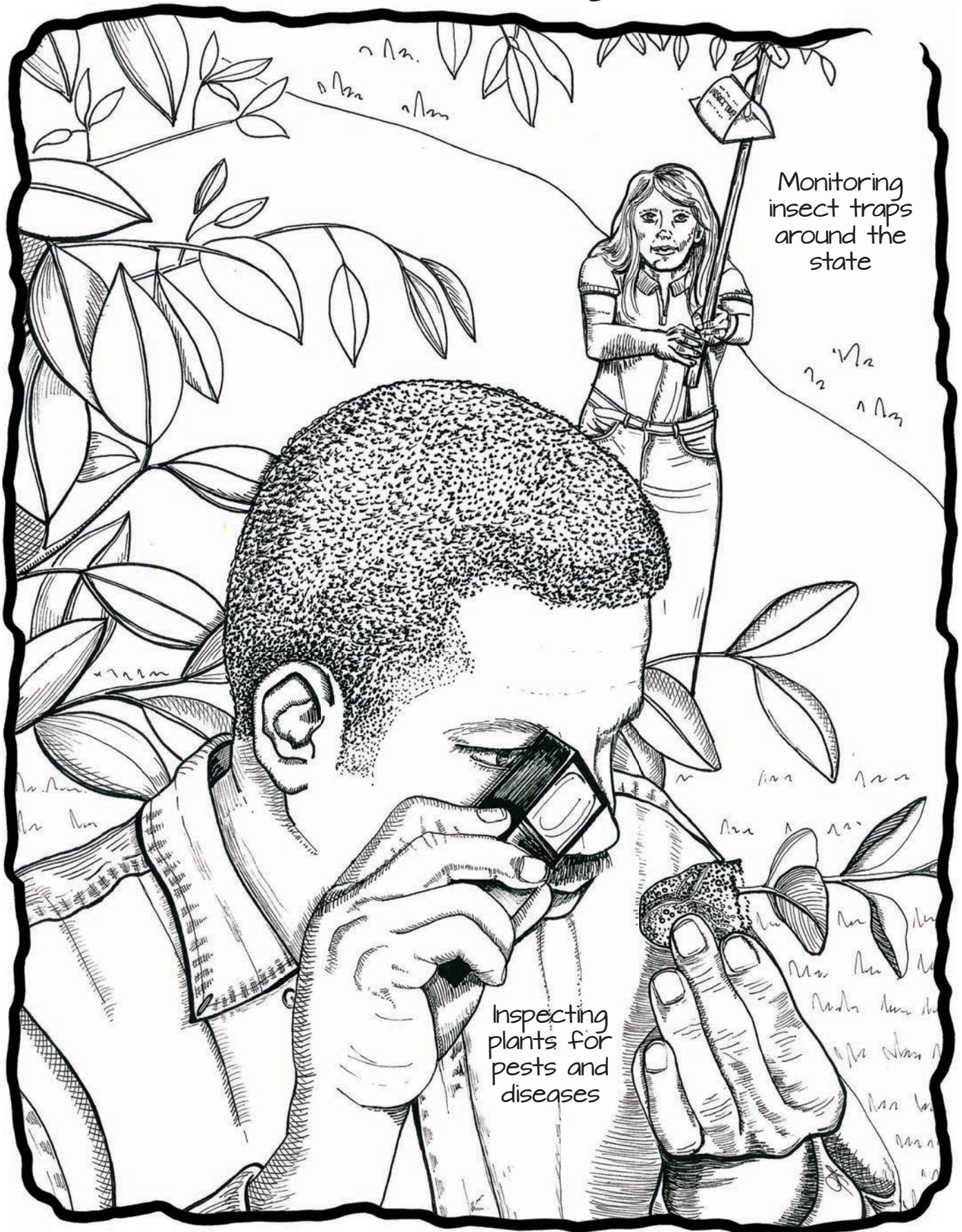
Florida Department of
Agriculture and Consumer Services

Florida Department of Agriculture
and Consumer Services
Division of Plant Industry

Mission

To protect Florida's native and commercially grown plants and the state's beekeeping industry from harmful pests and diseases.

Activities the Department conducts to Protect Florida Agriculture



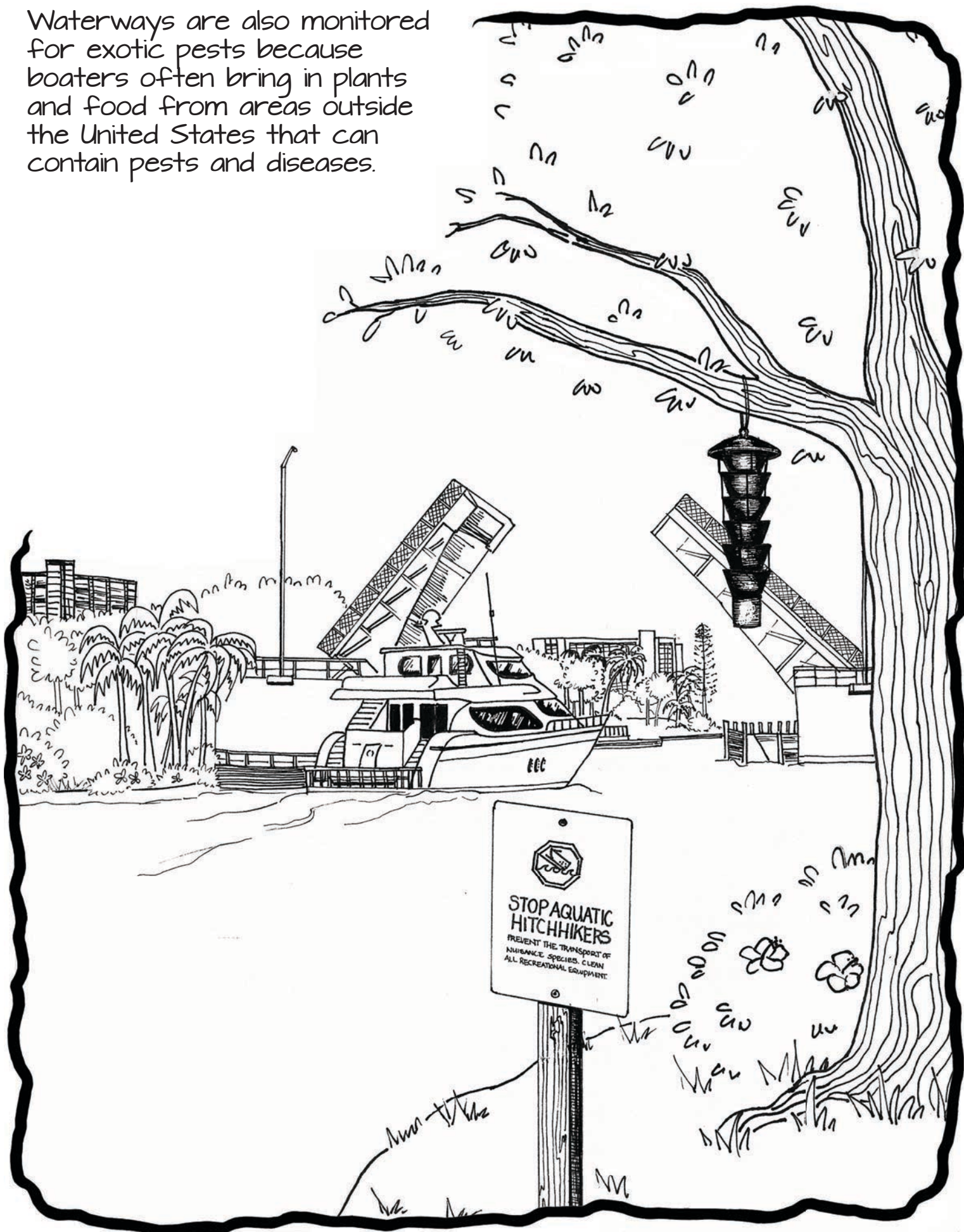
Monitoring
insect traps
around the
state

Inspecting
plants for
pests and
diseases

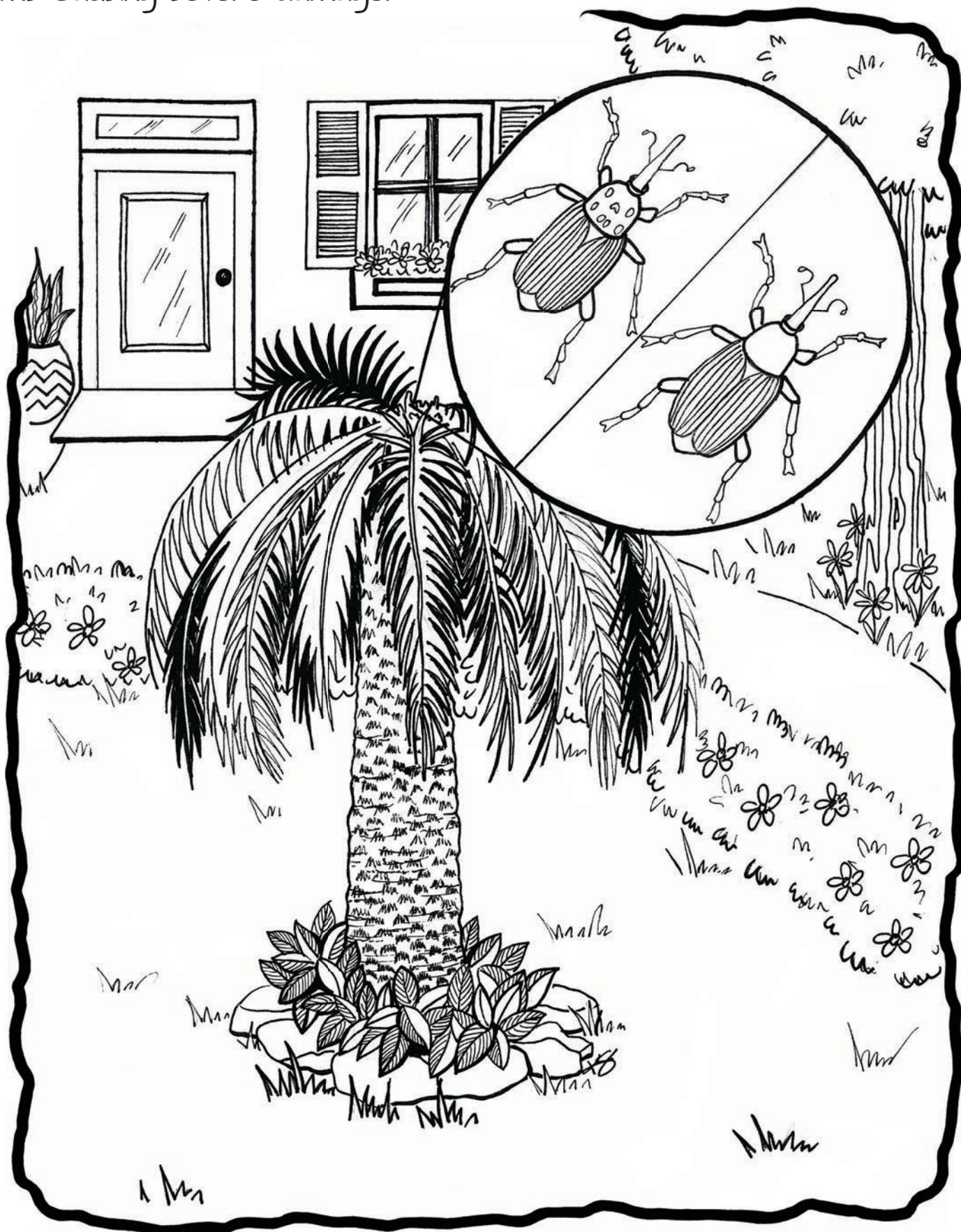
The Florida Department of Agriculture and Consumer Services works to prevent non-native organisms from entering the state. Inspectors check food and plants from other states and other countries to make sure they are free of pests and diseases before entering Florida.



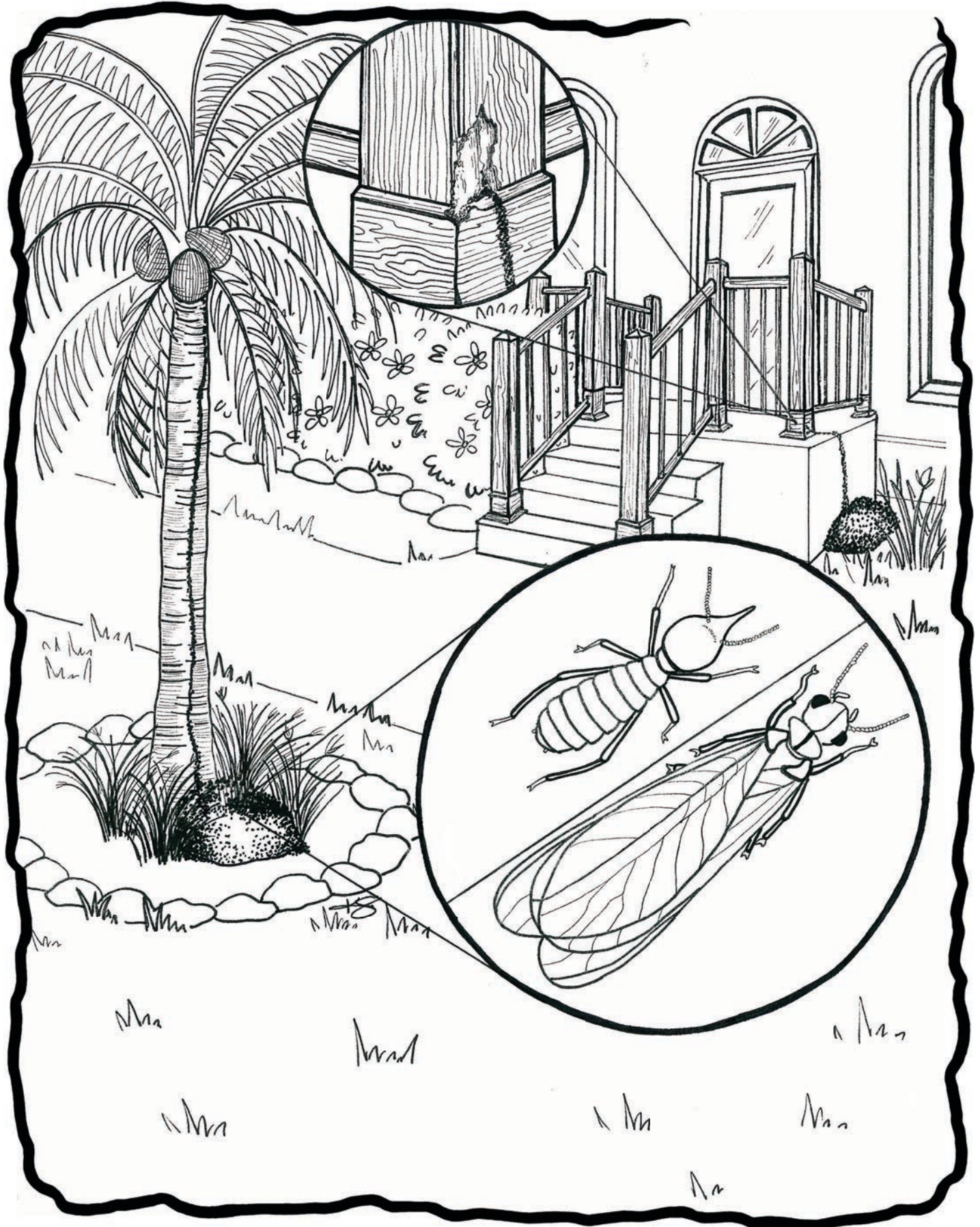
Waterways are also monitored for exotic pests because boaters often bring in plants and food from areas outside the United States that can contain pests and diseases.



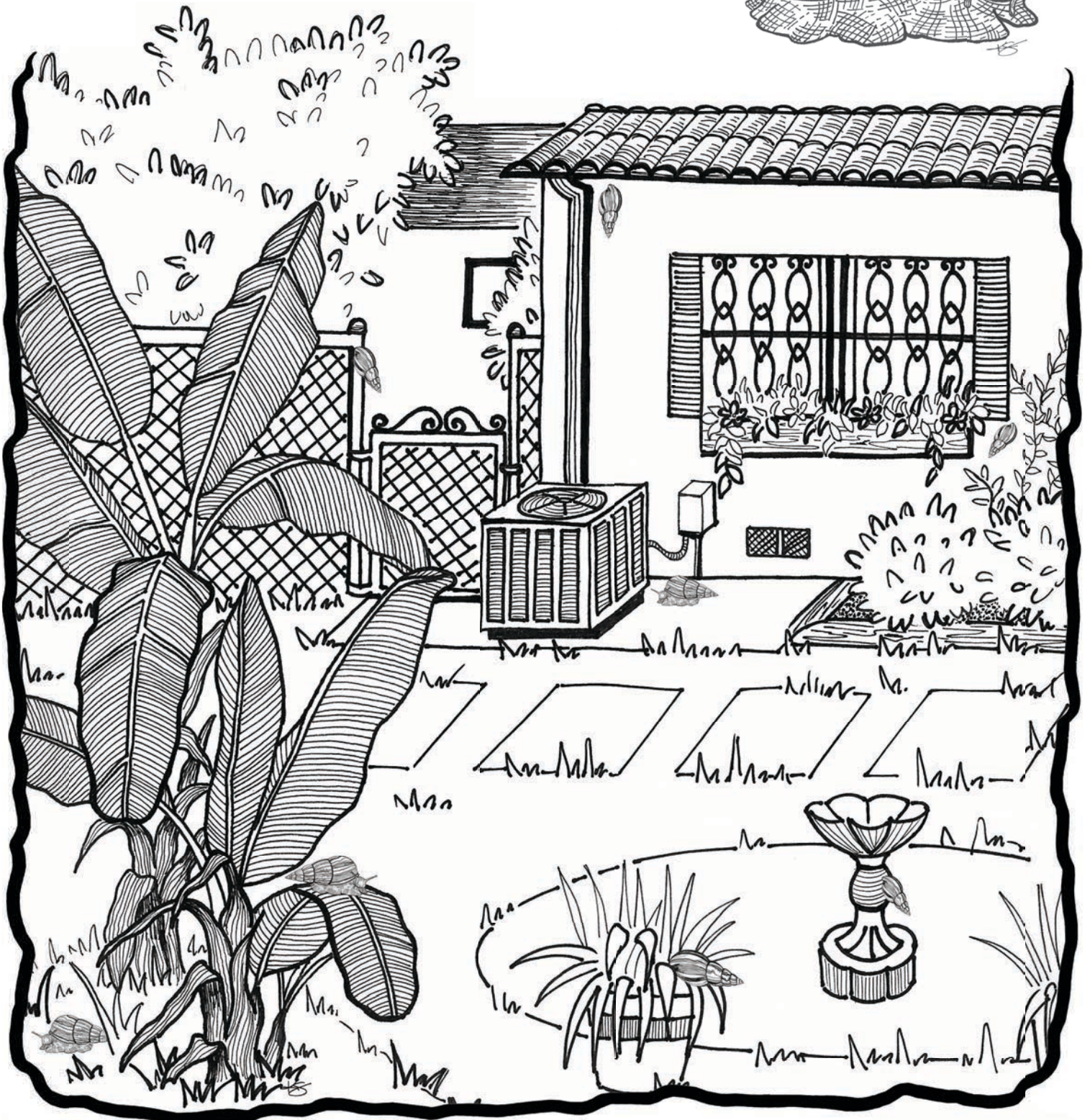
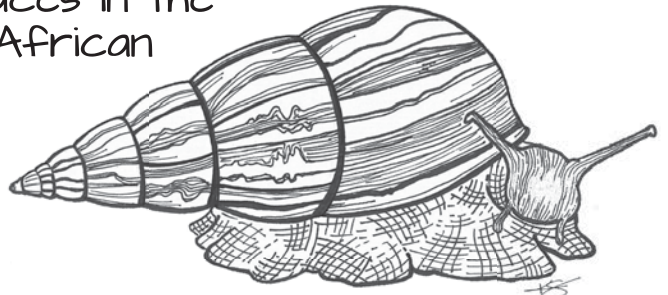
The red palm weevil is native to Southeast Asia. It has spread to many countries, and is a harmful pest to many palms we use for food including coconut and date palms. The larvae eat the top of palms causing severe damage.



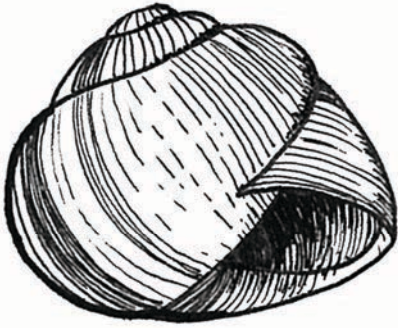
The conehead termite is a non-native termite that looks something like an ant. It builds nests on the ground or in trees. The termite feeds on dead wood and wood products.



Giant African land snails are a major agricultural pest that attack more than 500 varieties of plants. They can be found in many places and come out to feed early in the mornings, in the evenings and after it rains. On page 11, list the places in the picture below where you see the giant African land snail.



Snails found in Florida

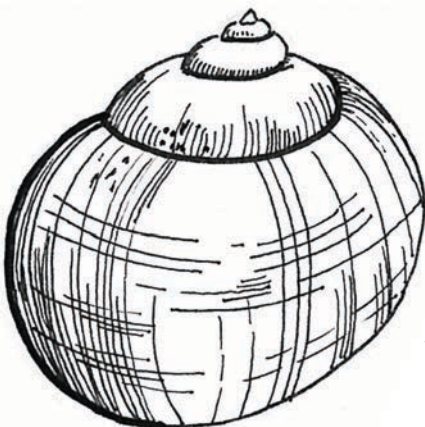


Cuban land snail
INVASIVE

Giant African land snail
INVASIVE



Many-lined tree snail
NATIVE

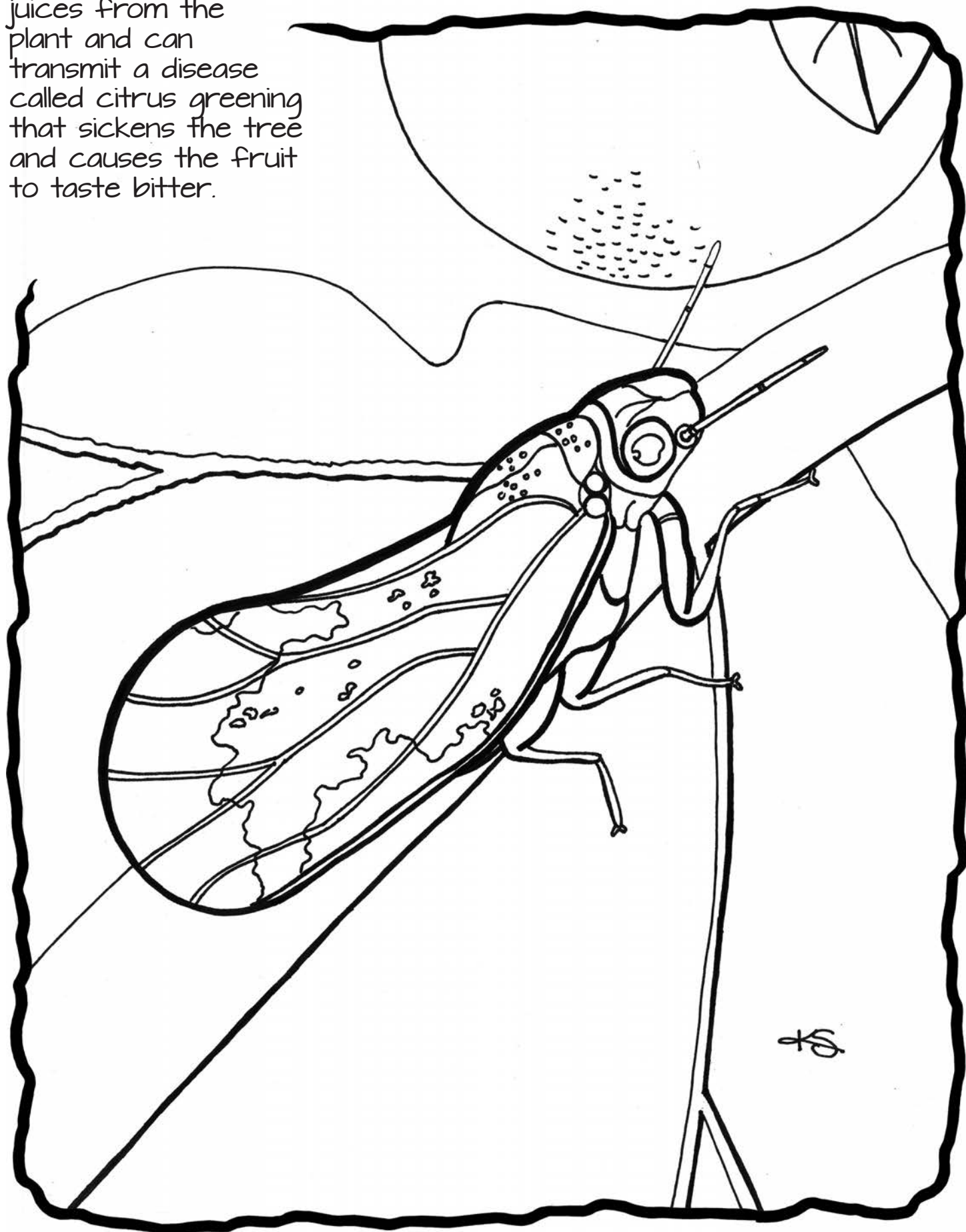


Apple snail
AQUATIC
NATIVE and
INVASIVE SPECIES

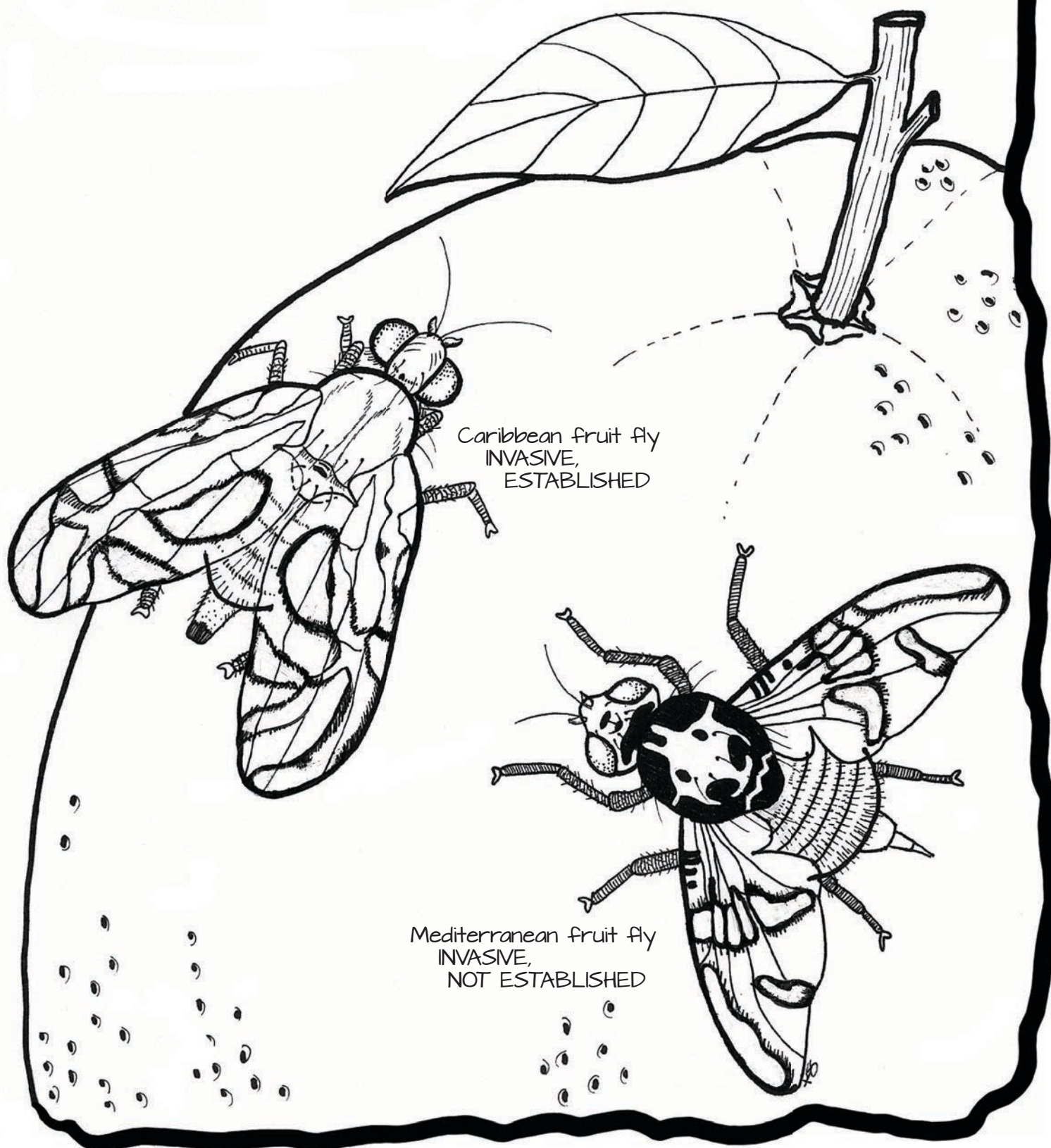


Rosy wolf snail
INVASIVE,
PREDATOR

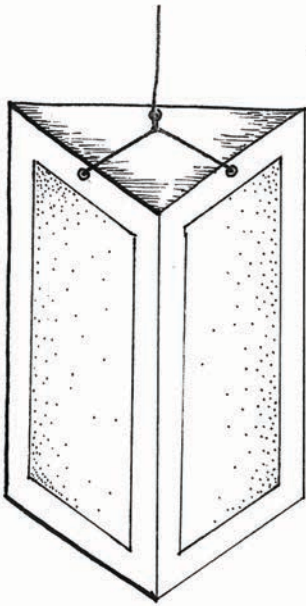
The Asian citrus psyllid is one of the most serious citrus pests in the world! This insect sucks juices from the plant and can transmit a disease called citrus greening that sickens the tree and causes the fruit to taste bitter.



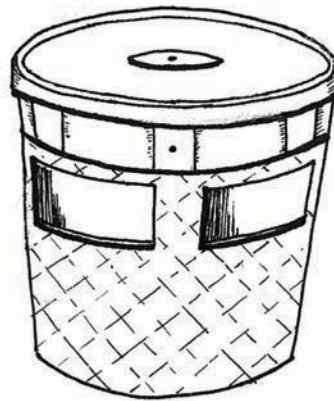
Mediterranean and Caribbean fruit flies are among the world's most destructive pests. Together they attack over 200 kinds of fruits, vegetables and nuts, including citrus, an important Florida crop.



Traps for monitoring insects

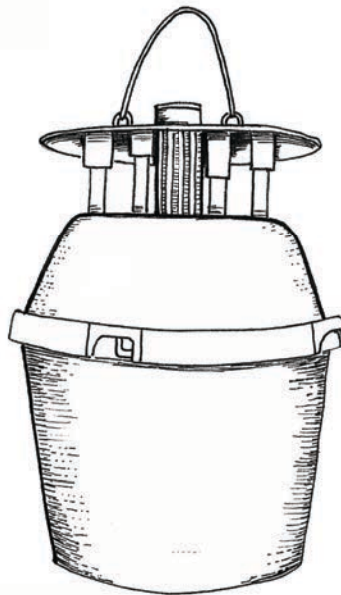


Emerald ash
borer prism trap

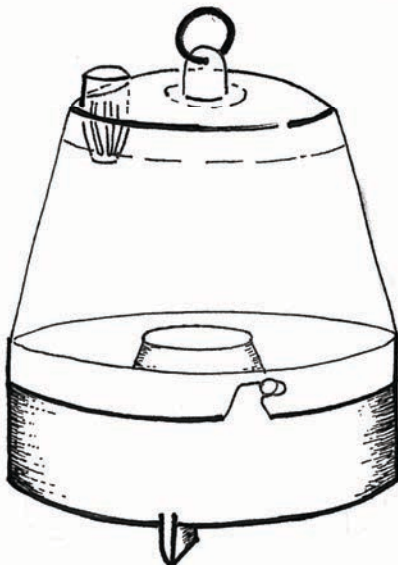


Red palm
weevil bucket
trap

Moth bucket trap



Beetle
funnel
trap



McPhail
fruit fly
trap



Delta trap

Activities

List some of the invading insects pictured in this book.

red palm weevil, conehead termite, giant African land snail, Asian citrus psyllid, Mediterranean fruit fly, Caribbean fruit fly

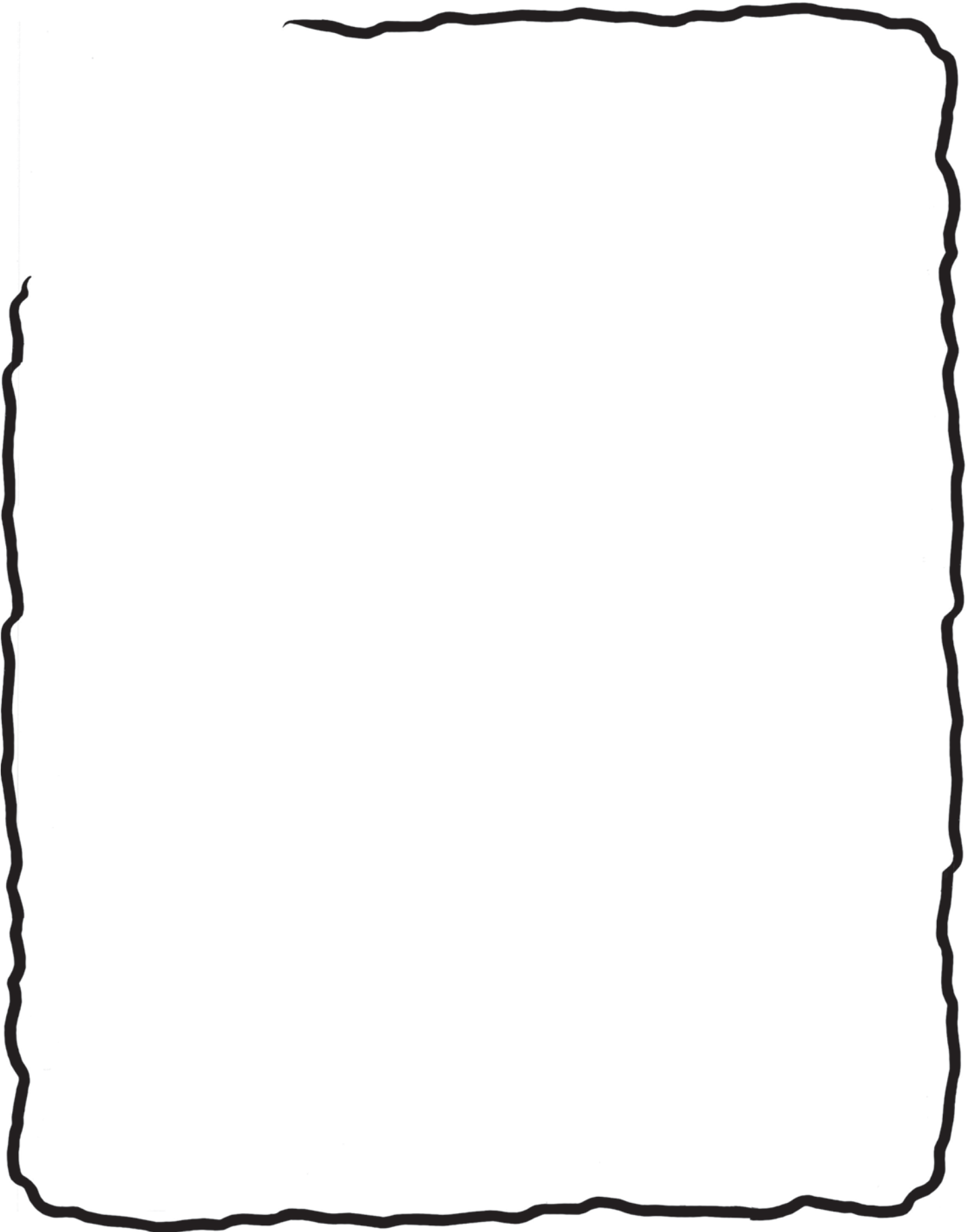
List where giant African land snails are found in the picture on page 6.

potted plants, flower pots, trees, sides of houses, under roof eaves, near air conditioners, bird baths, fences, plants and shrubs, window boxes, under leaves or other plants

What did you learn about what is done to protect Florida agriculture?

traps monitored, plants inspected, food inspected, waterways monitored

Draw and color an insect you see in your yard.



Glossary

Aquatic:	growing or living in water
Exotic:	originates from another region
Inspect:	to examine closely
Invasive:	tending to spread
Larva:	a young wingless often wormlike form that hatches from the egg of many insects
Monitor:	to watch or check over a period of time
Native:	living or growing naturally in a particular region
Non-native:	living or growing in a place that is not the region where it naturally lives and grows
Organism:	a living person, plant or animal
Originates:	where something comes from
Predator:	an animal that lives by killing and eating other animals

Learning About Florida Invaders is sponsored by the Cooperative Agricultural Pest Survey (CAPS), a group of state and federal inspectors that monitor Florida for unwanted exotic invasive pests. To learn more about CAPS, visit FreshFromFlorida.com/CAPS



Red palm weevil
Grows to two inches
Photo: Wikipedia



Giant African land snail
Grows to eight inches
Photo: FDACS



Conehead termites
(soldiers)
Grow to $\frac{1}{16}$ inch
Photo: FDACS



Asian citrus psyllid
Grows to $\frac{1}{6}$ inch
Photo: FDACS



Mediterranean fruit fly
Grows to $\frac{1}{3}$ inch
Photo: FDACS



Caribbean fruit fly
Grows to $\frac{1}{3}$ inch
Photo: FDACS

For more information:

1-888-397-1517

www.FreshFromFlorida.com



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